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Program Executive Office  
C4I and Space

**Building the Navy's C4I "Strategic  
Capability"**

**NDIA Industry Conference  
9 November, 2005  
Mr. Dennis Bauman  
Program Executive Officer  
C4I and Space**

Statement A: Approved for release; distribution is unlimited (8 NOVEMBER 2005)

***PEO C4I & SPACE***



# Agenda

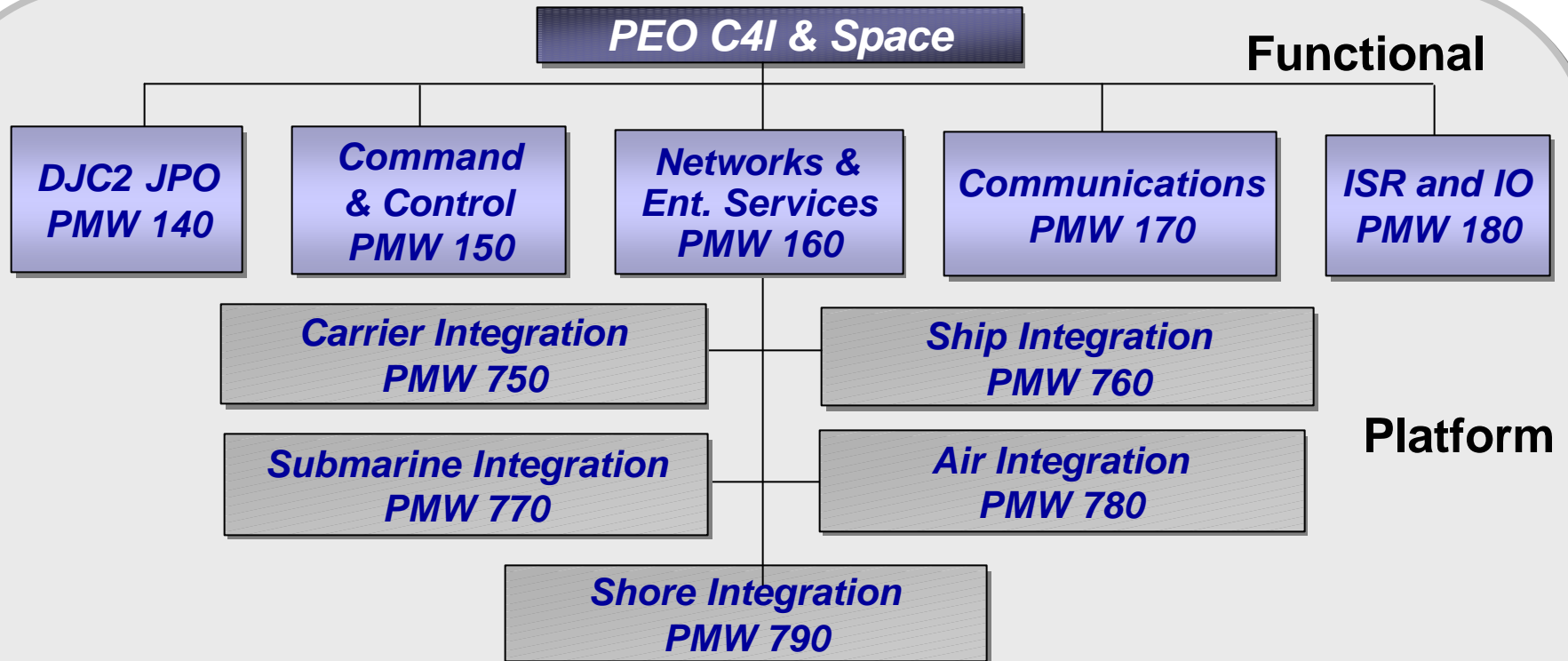
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- Organizational Alignment Update
- FY06 Focus Areas
- C4I Integrated Roadmap
- JTRS



# Organizational Structure

## *PEO C4I and Space*



*Functional PMs responsible for product development and sustainment.*

*Platform PMs are responsible for Integration to the platforms, primary Fleet POCs, Installation, and accelerated delivery of the C4I capabilities to platforms (through platform sponsors and new ship construction).*



# Internal Reorganization Results

## *What We've Accomplished*

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- Stood up Platform program offices
  - Delivering integrated C4I products
  - Experienced management team meeting current and future fleet needs
  - Realigned Installation responsibilities to PEO C4I & Space
- Functional Program Offices
  - Increased cross program integration
  - LSI contracting progress



# 2006 Focus Areas

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- **Make our Organizational Precepts a Reality**
  - New Construction and Capabilities Focus
- **Improve Program Execution**
  - Planning, installation, logistics and life-cycle support
- **Implement a Complete C4I Integrated Roadmap**
  - Full enablement of roadmap potential
- **Achieve Greater Acquisition Results**
  - Impact the process earlier
- **Drive Consistency in System Engineering and Development**
  - LSI contracting (significant, not exclusive factor)
- **Focus on the Business of Operating the PEO**
  - Meaningful metrics, Lean/Six Sigma



# Lead System Integrator (LSI)

## *Priority for Platform PMWs*

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### Goals

- Reduced risk
- Increased use of competition
- Deliver more integrated products



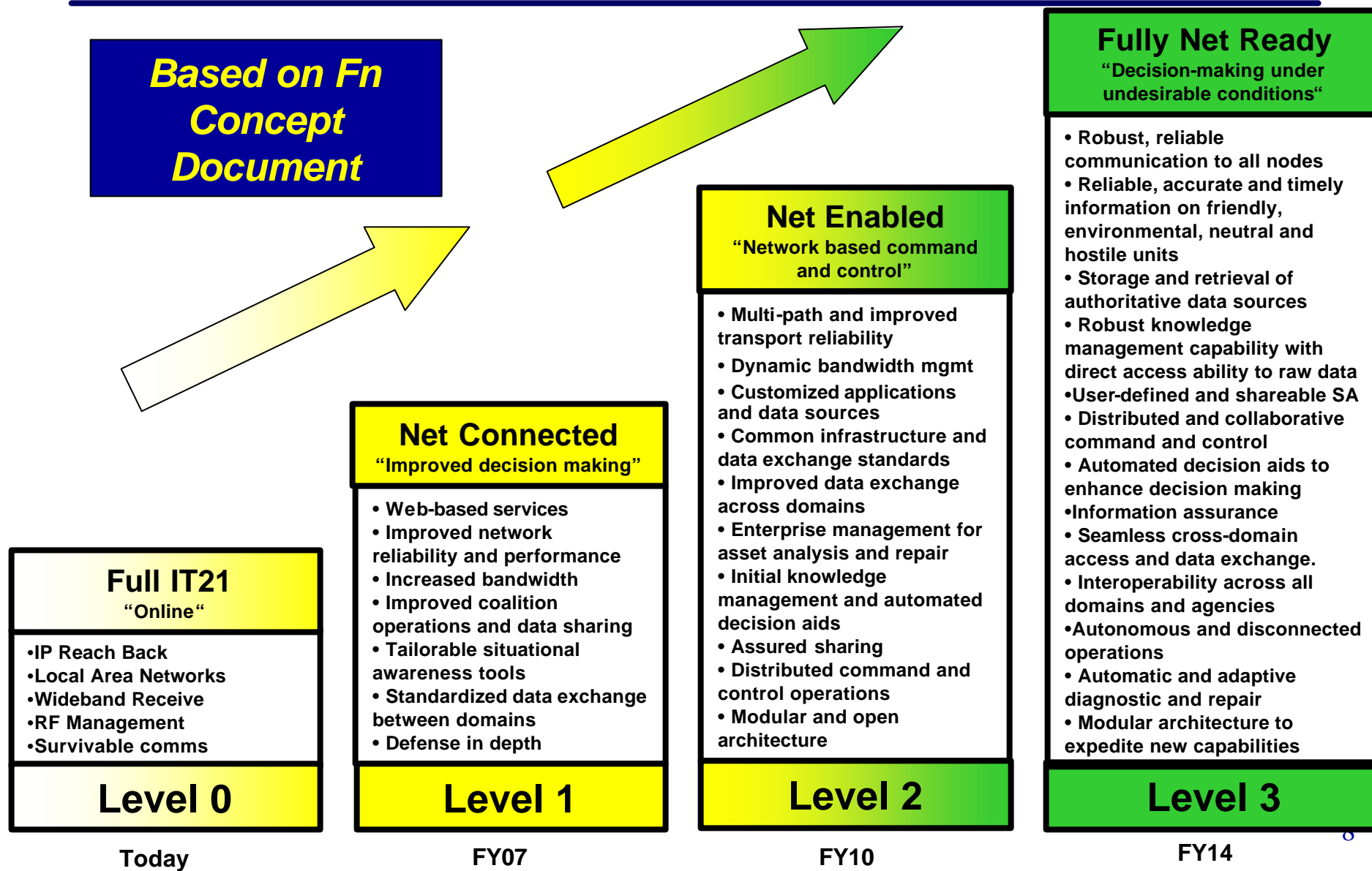
# Integrated C4I Roadmap Vision

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- Allow us to provide *capabilities-based* integrated products for the fleet
- Serve as a mechanism to synchronize delivery, ensuring the planning and programming timelines of systems and infrastructure are logically aligned
- Reveal gaps and overlaps in capability that we must address in our current systems



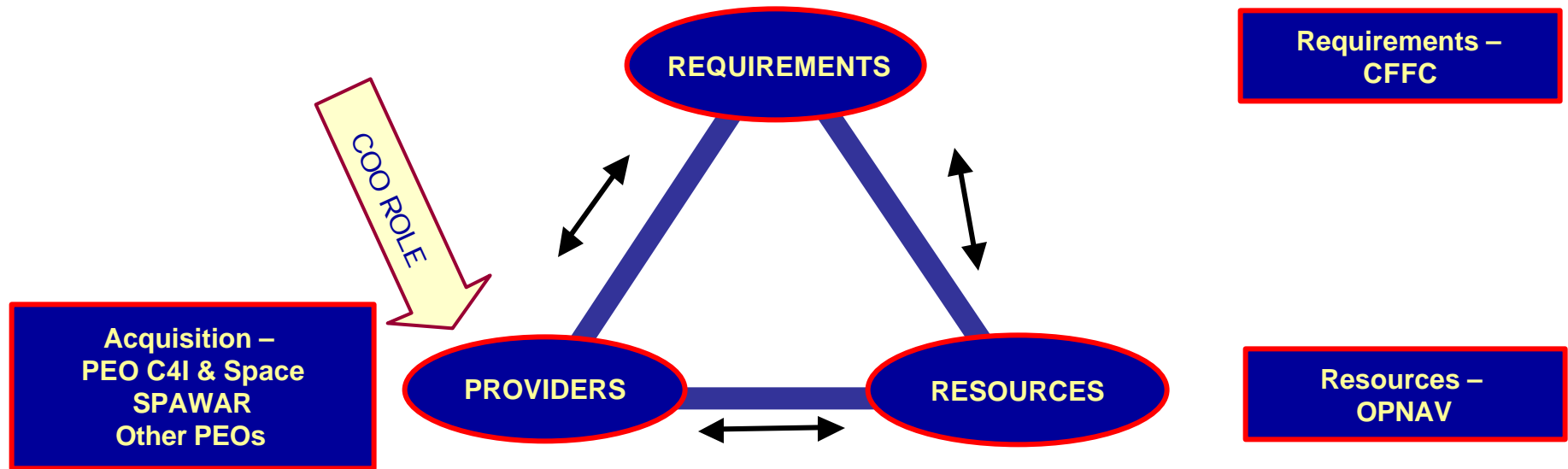
# C4I Roadmap







# NCW Enterprise



Roadmap allows the Community Triad to synchronize efforts

- **Assists the Fleet in prioritizing requirements**
- **Facilitates educated decisions by sponsors to defend appropriate resources**
- **Guides PEO C4I & Space to acquire/develop/field the correct capability at the correct time**



# Supporting Activities to the Roadmap

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- Working with Fleet and OPNAV to define baseline definition for NCW for each ship class
- Use tool to improve POM and SHIPMAIN processes
- PEO C4I and Space reorganized around capabilities and platforms rather than stovepiped systems
- Development of Network-Centric Enterprise Solutions for Interoperability (NESI) as Roadmap implementation strategy and yardstick



# PEO C4I & Space Summary

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- PEO C4I and Space Organization
  - Internally aligned and externally recognized as the single C4I provider for new construction and Fleet Modernization Program (FMP)
  
- Operating for Effectiveness and Efficiency
  - Reorganized for optimal performance
  - Using Lead Systems Integrator, Lean Six Sigma, and the C4I Integrated Roadmap to maximize efficiencies



# **Joint Program Executive Office Joint Tactical Radio Systems**

## ***JTRS Status and Way Ahead***

**NDIA Industry Conference  
9 November 2005  
Mr. Dennis Bauman  
Joint Program Executive Officer  
Joint Tactical Radio Systems**

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***JPEO JTRS***



# JTRS Background

## *A Transformational Enabler*

**Transformation's Outcome: “fundamentally joint, network-centric, distributed forces capable of rapid decision superiority and massed effects across the battlespace”**

- Transformation Planning Guidance  
April 2003

- Four pillars of Transformation
  - Strengthening Joint Operations
  - Exploiting U.S. Intelligence Advantages
  - Experimenting in Support of New Warfighting concepts
  - Developing Transformational Capabilities

Joint, end-to-end,  
network-centric  
warfighting  
capabilities are  
essential!



# JTRS Background

## *A Transformational Enabler*

- Seven pillars of the Global Information Grid (GIG)
  - Transformation Communications Architecture
  - Global Information Grid – Bandwidth Expansion
  - Teleports
  - JTRS – “the first tactical mile”
    - Mobile ad-hoc networking and Cross-banding
  - GIG Enterprise Services (GES)/Net-Centric Enterprise Services (NCES)
  - Information Assurance (IA) initiatives
  - Internet Protocol Version 6 implementation
- Without JTRS, the tactical warfighter is not connected to the GIG

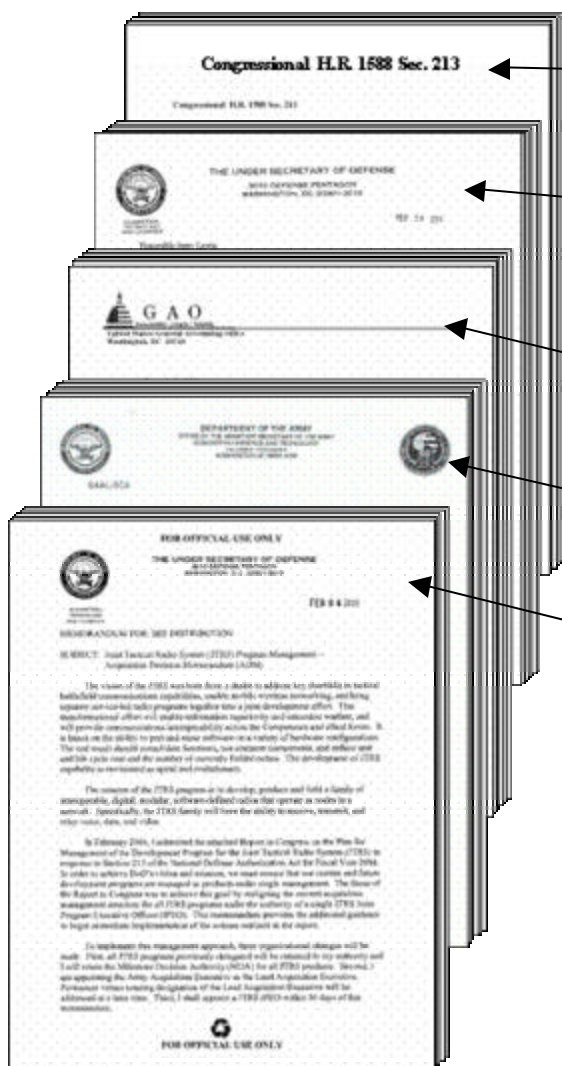
**JTRS makes the goals of Transformation a warfighting reality for the Joint warrior at the tactical edge**



# JTRS Background

## JPEO Establishment Drivers

### Sources



- H.R. 1588 Section 213 of the National Defense Authorization Act for Fiscal Year 2004
- Report on the plan for implementation of management of the development program for Joint Tactical Radio System, 24 February 2004
- GAO-03-879R Joint Tactical Radio System Program - Challenges and risks with the JTRS program, 08 August 2003
- Response to GAO draft report “Challenges and risks associated with the JTRS Program”
- Acquisition Decision Memorandum (ADM), “Joint Tactical Radio System (JTRS) Program Management,” 04 February 2005

### Core Findings Need to:

- “Strengthen joint management structure ...”
- “Ensure that the key enablers ... are adequately addressed”



# JTRS Background

## *Milestones Achieved*

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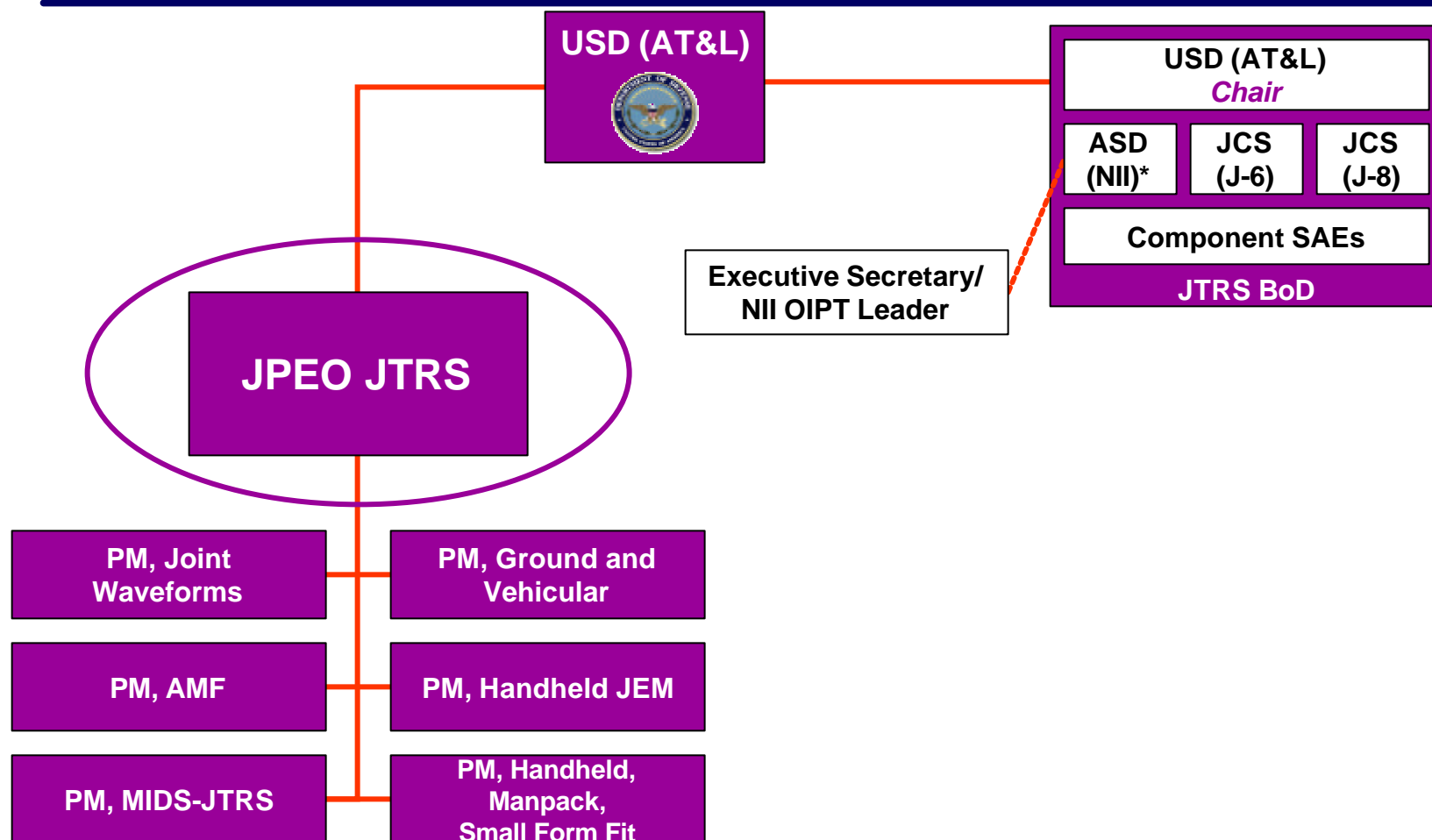
- 4 February 2005, JTRS ADM issued
- USD (AT&L) Milestone Decision Authority for all JTRS Products
- Established a JPEO for the JTRS program
  - Reports directly to USD (AT&L)
- Empowered JPEO with full directive authority for:
  - All waveform, radio, and common ancillary equipment development
  - Systems engineering
  - Performance and standards
  - R&D funding
- Directed JPEO to immediately:
  - Assess all Clusters and make recommendations
  - Develop an organizational structure
- 14 October 2005, JPEO JTRS charter signed by USD (AT&L)





# JTRS Background

## JPEO JTRS Organization – Reporting Authorities



\* = IAW DoD Directive 5144.1, dated 2 May 2005, Subject: Assistant Secretary of Defense for Networks and Information Integration/DoD Chief Information Office (ASD (NII)/DoD CIO)



# Actions Taken

## *First Six Months*

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- Assessed Clusters 1 and 5, AMF and status of waveforms
- Initiated draft replan of Clusters 1 / 5 / AMF / Waveforms
  - Reduced high risk programs to moderate risk, incremental development approach while maintaining current requirements baseline
- Established and strengthened an overall JTRS management structure
  - Created a centralized JPEO organization with clear R&R, accountability and reporting
  - Established processes for overall systems engineering across programs



## Actions Taken

### *First Six Months (con't)*

- 19



# JTRS Challenges

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- Networking is Hard!
- Expectation Management is difficult
- Management of large, complex, joint programs is difficult



# Ongoing Activities

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- Requirements review with J6 / J8, OSD and Service Stakeholders
- Industry input (Requests For Information)
  - Insertion of additional commercial technologies
- Airborne Domain Networking
- Ground Domain Networking

**All activities aligned to provide JTRS the most effective and efficient path to transformational networking capability**



# JTRS Way Ahead

## *Near-term Strategy*

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- Execute remaining actions of 4 Feb 05 ADM
  - Assess remaining Clusters
- Replan Cluster and Waveform developments
  - Strategize on JTRS JCIDS process to support incremental capability development and delivery
  - Assess technology base
  - Develop an incremental acquisition strategy for DAB approval

**Program Priorities: Incremental – Executable – Open**



# JPEO JTRS Summary

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- Secure mobile ad-hoc wideband networking and cross-banding are the key Transformational enablers
  - JTRS brings the advantages of NCW to the warfighter
- JTRS is a *journey* to Transformation
  - Key for success is incremental drops of increasing capability
- We need to manage expectations
  - Total cost of fielding this capability is much greater than anyone probably envisioned at the start
  - Many stakeholders across different warfighting domains with different requirements
- JTRS is *hard*!
  - Complex endeavor with difficult technical and programmatic challenges
  - Different business models for developing and fielding this capability must be explored